From the	TENT COOPER.	ATION TREAT	PCT PCT PCT			
INTERNATIONAL SEARCHING AUTHORI	TY.		DOT SIA			
To:			PCT TO			
	į		TITEN OPINION OF THE ONAL SEARCHING AUTHORITY			
			(PCT Rule 43bis.4)			
		Date of mailing (day/month/year)	See Form PCT/ISA/210			
Applicant's or agent's file reference		FOR FURTHER ACTION				
P2004,0009WO		See paragraph 2 below				
International application No. PCT/EP2004/013590	International filing date 30.11.2004	(day/month/year)	Priority date (day/month/year) 08.01.2004			
	national classification ar	od IIX.	l			
International Patent Classification (IPC) or both national classification and IPC HO1 P1/213, HO1 P5/10, HO1 P1 /205						
Applicans						
EPCOS AG						
This opinion contains indications rela	ting to the following item	15:				
Bux No. 1 Basis of the opinion						
Box No. II Priority	·					
Box No. III Non-establi	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Reasoned statement under Rule 43bis, i(ag(i) with regard to novelly, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain doc						
Box No. VII Certain del	Box No. VII Certain defects in the international application					
Box No. VIII Certain ob	Box No. VIII Certain observations on the international application					
2. FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(h) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fort PCIMSAJ220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/226.						
Name and mailing address of the ISA/EP		Authorized officer				
Facsimile No.		Telephane No.				

Form PCT/ISA/237 (cover sheet). (Jamiary 2004)

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Bo	No. 1	Basis of this opinion
١.	With	regard to the language, this opinion has been established on the basis of the international application in the language in which it was , unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
		Rute 12.3 and 23.1(b)).
2.		h regard to any nucleotide und/or unitno acid sequence disclosed in the international application and necessary to the claimed intion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written formal
		in computer readable form
	ĸ	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		turnished subsequently to this Authority for the purposes of search.
1		In addition, in the case that more than one version or copy of a sequence listing and/or tablets) relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled, as appropriate, were furnished
٦.	Adi	ditional comments:

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Box No, V	Reasoned statement		novelty, inventive step or industrial applicability:			
f. Statement	citations and explan	ons supporting such statement	<u> </u>			
Novelty	N)	lains 1-10	YES			
• • •			NO NO			
Inventive step (1S)						
threather at him		1.10	YES NO			
Industrial applicability (IA)						
riusis all lo	· al-lan mann) (m)		YES NO			
: 						
	d explanations:					
1.	· · · · · · · · · · · · · · · · · · ·					
	D1: JP 62 235801 A (FUJI ELELCTROCHEM CO LTD) 16					
	October 1987 (1987-10-16)					
	D2: US-A-5 572 175 (TADA ET AL) 5 November 1996					
		-11-05)				
			AN Vol. 2003, No. 11,			
			1-05) & JP 2003 209413			
	Т) А	KO 1NC), 25 July 2	003 (2003-07-25)			
2.	2. The present application fails to comply with the					
	requirements of PCT Article 33(1) since the					
	subject matter of claims 1-10 is not based on an					
	inventive step within the meaning of PCT Article					
	33(3).					
2.1.	Document	l is considered th	ne prior art closest to			
-						
	the subject matter of claim 1. It discloses (the references in parentheses apply to this document):					
		parameters up	E-1 00 mile assumency.			
	a duplexer (abstract),					
	comprising an Rx filter, a Tx and a decoupler					
	and/or de	ay line (drawing 3	3),			
	in which	oth filters are en	mbodied in a common			

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Box No. V Reasoned statement under Rute 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Feature 2) merely involves the integration of a known discrete balun with an Rx filter.

Document D2 describes a filter (drawing 11) and a duplexer (drawing 18), wherein an electronic circuit is arranged under the filter in a recess of the ceramic body such that the filter and the duplexer with the electronic circuit together have a uniform height.

Although the electronic circuit in D2 is not a balun, this is irrelevant since the problem being addressed is solely that of integration, and for this reason the balun aspect is not important. For both these reasons, the subject matter of claim 1 does not involve an inventive step.

2.2 The features contained in dependent claims 2-10 are either known from documents D1-D3, or are standard practice in the art, or are only one of several obvious possibilities from which a person skilled in the art would choose according to the circumstances, without this involving an inventive step, in order to solve the problem being addressed. Hence, the subject matter of claims 2-10 does not involve an inventive step within the meaning of EPC Article 56.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- 3. The application fails to comply with the requirements of PCT Article 6, since claim 1 is not clear.
- 3.1. It would appear from the description that the following feature is essential to the definition of the invention:
 - comprising ... a conductor connected between the two filters (page 3, lines 21-23).

Since independent claim 1 does not contain this feature, it fails to comply with the requirement of PCT Article 6 in conjunction with PCT Rule 6.3(b) that each independent claim must include all the technical features essential to the definition of the invention.

- 3.2. The relative terms ("...front surface...", "...on the lower side...", "...arranged under the Rx filter...") used in claim 1 have no generally acknowledged meaning, and leave the reader uncertain as to the meaning of the technical features in question. As a result, the subject matter of the said claim is not clearly defined (PCT Article 5).
- 3.3. It is not clear how the balun and the Rx filter are connected. The applicant is requested to explain the connection between the filter and the balun.

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3.4. The term "height" used in claim is vague and unclear (what is the height? - the height of the resonators, or the width of the ceramic bodies?) and leaves the reader uncertain as to the meaning of the technical feature(s) in question. As a result, the subject matter of the said claim is not clearly defined (PCT Article 6). The applicant is requested to define "height" in this context.